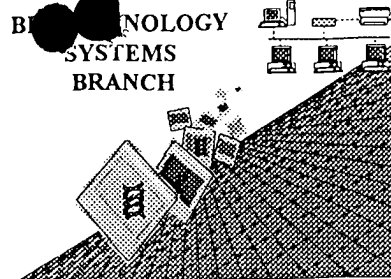


12E09

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



#9  
1/18

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/397, 957  
Source: 1655  
Date Processed by STIC: 4-17-01

TECH CENTER 1600/2900

MAY - 1 2001

RECEIVED

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# New Sequence Listing Error Summary

### ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/397,957

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped " down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length      Sequence(s) ☐ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 8 ☐ Skipped Sequences (OLD RULES)      Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence:  
**(2) INFORMATION FOR SEQ ID NO:X:**  
**(i) SEQUENCE CHARACTERISTICS:**(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
**(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:**  
**This sequence is intentionally skipped**  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES)      Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence.  
**<210> sequence id number**  
**<400> sequence id number**  
**000**
- 10 ☐ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☒ Use of "Artificial" (NEW RULES)      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
Valid response is Artificial Sequence.
- 12 ☐ Use of <220>Feature (NEW RULES)      Sequence(s) ☐ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
**Please explain source of genetic material in <220> to <223> section.**  
**(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)**
- 13 ☐ PatentIn ver. 2.0 "bug"      **Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1655

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/397,957

DATE: 04/17/2001  
 TIME: 13:04:41

Input Set : A:\A65686-1.ST25.txt  
 Output Set: N:\CRF3\04172001\I397957.raw

Does Not Comply  
 Corrected Diskette Needed  
 pp. 1-2

3 <110> APPLICANT: Duong, Hau  
 4 Kayyem, Jon  
 5 O'Connor, Stephen  
 6 Terbrueggen, Robert  
 8 <120> TITLE OF INVENTION: Signal Detection Techniques for the Detection of Analytes  
 10 <130> FILE REFERENCE: A-65686-1/RFT/RMS/RMK  
 12 <140> CURRENT APPLICATION NUMBER: US 09/397,957  
 13 <141> CURRENT FILING DATE: 1999-09-17  
 15 <150> PRIOR APPLICATION NUMBER: US 60/100,730  
 16 <151> PRIOR FILING DATE: 1998-09-17  
 18 <160> NUMBER OF SEQ ID NOS: 7  
 20 <170> SOFTWARE: PatentIn version 3.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 15  
 24 <212> TYPE: DNA  
 C--> 25 <213> ORGANISM: Artificial  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: synthetic DNA target.  
 30 <400> SEQUENCE: 1  
 31 accatggaca cagat  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 22  
 36 <212> TYPE: DNA  
 C--> 37 <213> ORGANISM: Artificial  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: synthetic DNA target.  
 42 <400> SEQUENCE: 2  
 43 tcattgatgg tctcttttaa ca  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 32  
 48 <212> TYPE: DNA  
 C--> 49 <213> ORGANISM: Artificial  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: synthetic DNA target.  
 54 <400> SEQUENCE: 3  
 55 cacagtgggg ggacatcaag cagccatgca aa  
 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 18  
 60 <212> TYPE: DNA  
 C--> 61 <213> ORGANISM: Artificial  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: synthetic DNA target.  
 66 <400> SEQUENCE: 4  
 67 tgtgcagttg acgtggat  
 70 <210> SEQ ID NO: 5  
 71 <211> LENGTH: 72  
 72 <212> TYPE: DNA

15

Incomplete response for  
 <213> as per section 1.823b  
 of the new<sup>22</sup> sequence rules.  
 See #11 on the Error  
 Summary Sheet.

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18

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/397,957

DATE: 04/17/2001  
TIME: 13:04:41

Input Set : A:\A65686-1.ST25.txt  
Output Set: N:\CRF3\04172001\I397957.raw

C--> 73 <213> ORGANISM: Artificial  
75 <220> FEATURE:  
76 <223> OTHER INFORMATION: synthetic DNA target.  
78 <400> SEQUENCE: 5  
79 tgtgcagttg acgtggattg ttaaaagaga ccatcaatga ggaagctgca gaatgggata 60  
81 gagtcatcca gt 72  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 23  
86 <212> TYPE: DNA  
C--> 87 <213> ORGANISM: Artificial  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: synthetic DNA target.  
92 <400> SEQUENCE: 6  
93 tctacagcat ctgtgtccat ggt 23  
96 <210> SEQ ID NO: 7  
97 <211> LENGTH: 18  
98 <212> TYPE: DNA  
C--> 99 <213> ORGANISM: Artificial  
101 <220> FEATURE:  
102 <223> OTHER INFORMATION: signal probe.  
104 <400> SEQUENCE: 7  
105 atccacgtca actgcaca 18

*Refer to p.1*

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/397,957

DATE: 04/17/2001

TIME: 13:04:42

Input Set : A:\A65686-1.ST25.txt

Output Set: N:\CRF3\04172001\I397957.raw

L:25 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:37 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:49 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:61 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:73 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:87 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:99 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7